

ANGLED-ROLLER BELT CONVEYOR

Abstract

A conveyor and a method for rotating and registering an article against a rail. The conveyor includes an angled-roller conveyor belt whose article-supporting rollers are arranged to rotate about axes directing conveyed articles toward a side rail. An obstruction is selectively activated to move into a position just above a top article-conveying surface of the belt. In that position, the obstruction intercepts conveyed articles. The obstruction forms a pivot about which the articles rotate as the belt advances and the angled rollers rotate. An electric eye or other sensor sensitive to oversized or misoriented articles controls the positioning of the obstruction to rotate misoriented articles 90° or to let correctly oriented articles pass without contact and reorientation.